## **DECLARATION OF PERFORMANCE No. B002**

- 1. Unique identification code of the product type: CMC2B High Strength 13N Solid Block Range
- 2. Intended Use: Common masonry unit for use as external walls, or as internal walls, in load bearing or non-load bearing building and civil engineering applications.
- 3. Manufacturer: Concrete Manufacturing Company Ltd., Ballygaddy Road; Tuam, Co. Galway (trade name CMC)
- 4. Authorised Representitive: Not applicable
- 5. System of AVCP: AVCP System 2+
- 6. Harmonised Standard: EN 771-3:2011+A1:2015
- 7. Notified body: NSAI 0050

Mean strength 13N  Direction of the control of the	440mm 100mm 215mm D1 SOLID gory 1 to EN 1996-1-1 Group Mean strength 18N of load: Perpendicular to bee Category 1 <0.6mm/m 0.15N/mm² (Tabulated) e NA.5 of NA:2010+A1:2014 to I.S. EN Performance Determine	Mean strength 24Nd faces
215mm D1  Cateo Mean strength 13N  Direction of	215mm D1 SOLID gory 1 to EN 1996-1-1 Group Mean strength 18N of load: Perpendicular to bee Category 1 <0.6mm/m 0.15N/mm² (Tabulated) e NA.5 of NA:2010+A1:2014 to I.S. EN	215mm D1  p 1  Mean strength 24N d faces
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I.S. EN 998-2(Tabulated)Table	e NA.5 of NA:2010+A1:2014 to I.S. EN	
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	1850-2100 Kg/m <sup>3</sup>	
1.01	I - 1.33 W/mK (λ10. drv	()
Buildings Regulations TGD-L		
Masonry Conditions/Situations in		finished construction)
and S.R. 325:2013+A2:2018		
	Masonry Conditions/Situations in of S.R. 325:2013+A2:2018 and u including Technical Guidance Do	Masonry Conditions/Situations in Table 14 (Durability of masonry in of S.R. 325:2013+A2:2018 and used in accordance with Irish Build including Technical Guidance Documents C & D), Eurocodes, I.S. E

Durability Against
Freeze Thaw continued

Masonry Conditions/Situations A1 and A2 (Work below or near external ground level) and D (Rendered external walls (other than chimneys, cappings, copings, parapets, sills)) – Classes MX2.1/2.2/3.1: Category 1, Group 1:

- net density ≥ 1,500 kg/m<sup>3</sup>
- declared mean compressive strength ≥ 7.5N/mm<sup>2</sup> or a declared normalised compressive strength of ≥ 10.5 N/mm2
- mortar strength class: M4 (A1 / MX2.1/2.2/3.1), M6 (A2 / MX2.2)

Masonry Conditions/Situations A3 (Work below or near external ground level) and C1 and C2 (Unrendered external walls other than chimneys, cappings, copings, parapets, sills) – Class MX3.2:

Category 1, Group 1:

- net density ≥ 1,500 kg/m<sup>3</sup>
- declared mean compressive strength ≥ 13N/mm<sup>2</sup> and a declared normalised compressive strength of ≥ 18 N/mm2
- · mortar strength class: M12

All masonry units produced with aggregate in accordance with I.S. EN12620 (Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of I.S. EN 12620, Aggregates for concrete)

- Irish Building Regulations (including Technical Guidance Documents C & D)
- Eurocodes
- I.S. EN 1996-1-1:2005 (Eurocode 6: Design of masonry structures. General rules for reinforced and unreinforced masonry structures (+A1:2012) (including Irish National Annex +A1:2014))
- I.S. EN 1996-2:2006 (Eurocode 6: Design of masonry structures. Design considerations, selection of materials and execution of masonry (includes Irish National Annex - NA:2010))
- S.R. 325:2013+A2:2018 (including Clause 5.5 (Exclusion of moisture)
- , Clause 5.6 (Durability) & Table 14)
- I.S. EN 13914 1 & 2: 2016

Table 14 of S.R. 325:2013+A2:2018:

Masonry Conditions/Situations:

- · A1 Low Risk of Saturation
  - (1) Without Freezing (MX2.1, MX2.2)
  - (2) With Freezing (MX3.1)
- A2 High Risk of Saturation Without Freezing (MX2.2)
- A3 High Risk of Saturation with Freezing (MX3.2)
- C1 Low Risk of Saturation (MX3.1)
- C2 High Risk of Saturation (MX3.2)

Continued next page

**Durability Against** See masonry mortar strength classes in Table NA.3 of National Annex in Freeze Thaw continued I.S. EN 1996-1-1:2005 Table A.1 (Classification of micro conditions of exposure of of completed masonry) of I.S. EN 1996-2:2006: MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals · MX2.2 - Exposed to severe wetting but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals · MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulfates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulfates or aggressive chemicals For Render (including mix, thickness and number of coats), see S.R. 325:2013+A2:2018 (including Clause 5.5.3.2.1 (Applied external surface finishes), Annex E (Specification for mortar for masonry - I.S. EN 998-1 and 2) and Annex F (National guidance to I.S. EN 13914-1:2016)) and I.S. EN 13914-1:2016 (including Clauses 5 (Materials), 6 (Design considerations) and 7 (Work on site, preparation and application of renderings)). Note: Rendering is affected by the combined action of freeze thaw cycles, wind, sun and rain, and their effects will depend upon the degree of exposure. Durability of render will depend

Dangerous substances

None

on the correct choice of mix, thickness and number of coats and correct detailing

The Performance of the product identified above is in conformity with the declare performances.

The declaration of the performance is issued under the sole responsibility of the manufacturer identified above.

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Signed on behalf of the manufacturer:\_

James Farragher, Technical Manager, Concrete Manufacturing Co. Ltd.

15th February 2023